

## EAST Search History

## EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	2	"20070018138"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/11/10 14:06
L2	2	"20090226341"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/11/10 14:18
L3	2	"20060266158"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/11/10 14:24
L4	2	"6861030".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/11/10 14:26
L5	3	"6896788".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/11/10 14:26
L6	168	(Yuichiro near2 Shindo).in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/11/10 14:28
L7	971	(Nikko Materials).as.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/11/10 14:28

L8	7377	(Nippon Mining).as.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/11/10 14:28
L9	8283	L6 or L7 or L8	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/11/10 14:28
L10	254	L9 and ("2009").py.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/11/10 14:28
L11	21	L10 and (hafnium or hf!)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/11/10 14:29
L12	2	"20090126529"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/11/10 14:29
L13	2	"6861030"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/11/10 14:33
L14	4	("4108644"   "4722827"   "5196916"   "6210634"). PN. OR ("6861030").URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/11/10 14:34
L24	852	75/611-621.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/11/10 14:36
L25	1109	148/668,407,421.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/11/10 14:36

L26	2021	204/298.12,298.13.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/11/10 14:36
L27	474	420/422.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/11/10 14:36
L28	474	C22B34/14 or C22B034/14	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/11/10 14:36
L29	5481	C22C027/00 or C22C27/00 or C22C28/00 or C22C028/00	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/11/10 14:36
L30	2163	M25-G28\$2	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/11/10 14:36
L31	3002	M26-B13\$2	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/11/10 14:37
L32	44818	C23C14/06 or C23C14/34 or C23C014/06 or C23C014/34	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/11/10 14:37
L33	57153	L24 or L25 or L26 or L27 or L28 or L29 or L30 or L31 or L32	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/11/10 14:37

L34	3544	L33 and "2009".py.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/11/10 14:37
L35	353	L34 and (hafnium or hf!)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/11/10 14:37
L36	55	L34 and (hafnium or hf!) and (purity or 5N or 6N or wt ppm or wtppm or part per million)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/11/10 14:38
L37	2	"20090057142"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/11/10 14:42
L39	2	JP "04358030"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/11/10 14:45
S1	13	(US-20060266158-\$ or US- 20010037938-\$).did. or (US-6861030-\$ or US- 5196916-\$ or US-4668287- \$ or US-4637831-\$ or US- 5112493-\$ or US-5458697- \$ or US-6596228-\$).did. or (EP-134643-\$).did. or (JP- 2002105552-\$ or JP- 2002206103-\$).did. or (EP- 154448-\$).did.	US-PGPUB; USPAT; EPO; JPO; DERWENT	ADJ	ON	2009/02/26 13:51
S2	160	(Yuichiro near2 Shindo).in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/02/26 13:51
S3	962	(Nikko Materials).as.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/02/26 13:52

S4	7312	(Nippon Mining).as.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/02/26 13:52
S5	21	(US-20010037938-\$ or US-20060266158-\$ or US-20070018138-\$ or US-20030062261-\$).did. or (US-5112493-\$ or US-6596228-\$ or US-4637831-\$ or US-4668287-\$ or US-6861030-\$ or US-5458697-\$ or US-5196916-\$).did. or (EP-134643-\$ or WO-2007007498-\$ or EP-1686196-\$ or EP-1652944-\$ or WO-2005049882-\$).did. or (JP-2002206103-\$ or JP-2002105552-\$ or JP-2008179897-\$ or JP-2007119925-\$).did. or (EP-154448-\$).did.	US-PGPUB; USPAT; EPO; JPO; DERWENT	ADJ	ON	2009/02/26 14:00
S6	332	(S3 or S4) and (hafnium or hf!) not (S2 or S5)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/02/26 14:00
S7	64	S6 and (pure or purity or purif\$8 or refin\$8 or 4N\$1 or 5N\$1 or 6N\$1)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/02/26 14:01
S8	87	S6 and (pure or purity or purif\$8 or refin\$8 or 4N\$1 or 5N\$1 or 6N\$1 or sputter \$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/02/26 14:01
S9	848	75/611-621.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/02/26 15:14
S10	1093	148/668,407,421.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/02/26 15:14

S11	473	420/422.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/02/26 15:15
S12	2304	S9 or S10 or S11	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/02/26 15:15
S13	482	S12 and (hafnium or hf!)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/02/26 15:15
S14	351	S13 and (pure or purity or purif\$8 or refin\$8 or 4N\$1 or 5N\$1 or 6N\$1 or sputter \$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/02/26 15:15
S15	1901	204/298.12,298.13.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/02/26 15:16
S16	185	S15 and (hafnium or hf!)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/02/26 15:16
S17	526	S14 or S16	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/02/26 15:16
S18	186	S17 and (hafnium or hf!) same (pure or purify or ultra-pure or purifi\$8 or 4N \$1 or 5N\$1 or 6N\$1 or "99.9%" or "99.99%" or "99.999%" or "99.9999%")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/02/26 15:17

S19	152	C22B034/14	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/02/26 15:18
S20	199	C22C027/00	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/02/26 15:18
S21	857	C22C028/00	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/02/26 15:18
S22	7881	C23C014/06	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/02/26 15:18
S23	13429	C23C014/34	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/02/26 15:18
S24	7224	m13-G02\$2	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/02/26 15:18
S25	2076	M25-G28\$2	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/02/26 15:18
S26	2892	M26-B13\$2	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/02/26 15:18

S27	4302	V04-X01B\$2	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/02/26 15:19
S28	37875	(S19 or S20 or S21 or S22 or S23 or S24 or S25 or S26 or S27)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/02/26 15:19
S29	120	S28 and (hafnium or hf!) same (pure or purify or ultra-pure or purifi\$8 or 4N \$1 or 5N\$1 or 6N\$1 or "99.9%" or "99.99%" or "99.999%" or "99.9999%")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/02/26 15:19
S30	280	S18 or S29	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/02/26 15:19
S31	24	(US-20010037938-\$ or US- 20060266158-\$ or US- 20070018138-\$ or US- 20030062261-\$).did. or (US-5112493-\$ or US- 6596228-\$ or US-4637831- \$ or US-4668287-\$ or US- 6861030-\$ or US-5458697- \$ or US-5196916-\$ or US- 7459036-\$).did. or (EP- 134643-\$ or WO- 2007007498-\$ or EP- 1686196-\$ or EP-1652944- \$ or WO-2005049882-\$). did. or (JP-2002206103-\$ or JP-2002105552-\$ or JP- 2008179897-\$ or JP- 2007119925-\$).did. or (EP- 154448-\$ or WO- 2005049882-\$ or WO- 2005010220-\$).did.	US-PGPUB; USPAT; EPO; JPO; DERWENT	ADJ	ON	2009/02/26 15:19
S32	265	S30 not (S2 or S31)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/02/26 15:20



S33	260	S30 not (S2 or S31 or S8)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/02/26 15:20
S34	474	(hafnium or hf!) same (sputter\$8) same (pure or purity or purif\$8 or refin\$8)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/02/26 15:49
S35	442	S34 not (S33 or S2)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/02/26 15:49
S36	1	"4897116".pn.	DERWENT	ADJ	ON	2009/02/26 17:07
S37	1	"5196916".pn.	DERWENT	ADJ	ON	2009/02/26 17:07
S38	1	"5458697".pn.	DERWENT	ADJ	ON	2009/02/26 17:07
S39	1	"5679983".pn.	DERWENT	ADJ	ON	2009/02/26 17:07
S40	1	"6737030".pn.	DERWENT	ADJ	ON	2009/02/26 17:07
S41	1	"6986834".pn.	DERWENT	ADJ	ON	2009/02/26 17:07
S42	1	"7241368".pn.	DERWENT	ADJ	ON	2009/02/26 17:07
S43	1	"6723183".pn.	DERWENT	ADJ	ON	2009/02/26 17:07
S44	1	"5460793".pn.	DERWENT	ADJ	ON	2009/02/26 17:07
S45	1	"20040170552"	DERWENT	ADJ	ON	2009/02/26 17:08
S46	8	S36 or S37 or S38 or S39 or S40 or S41 or S42 or S43 or S44 or S45	DERWENT	ADJ	ON	2009/02/26 17:08
S47	1	EP "1329526"	DERWENT	ADJ	ON	2009/02/26 17:10
S48	1	EP "442752"	DERWENT	ADJ	ON	2009/02/26 17:10
S49	4	(7459036 5196916  5458697 6861030).pn.	USPAT	ADJ	ON	2009/02/26 17:47

S50	62	"3654526"   "4108644"   "4333808"   "4368072"   "4619695"   "4683645"   "4722827"   "4725872"   "4770948"   "4782380"   "4788160"   "4793854"   "4891066"   "4897287"   "4920073"   "4985750"   "4997518"   "5027185"   "5049975"   "5070038"   "5087578"   "5143866"   "5175126"   "5196916"   "5330589"   "5336378"   "5458697"   "5679983"   "6207589"   "6210634"   "6911619").PN. OR ("5196916"   "5458697"   "6861030"   "7459036"). URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/02/26 17:48
S51	27	(US-20010037938-\$ or US- 20060266158-\$ or US- 20070018138-\$ or US- 20030062261-\$).did. or (US-6861030-\$ or US- 5458697-\$ or US-5196916- \$ or US-7459036-\$ or US- 5679983-\$).did. or (WO- 2007007498-\$ or EP- 1686196-\$ or EP-1652944- \$ or WO-2005049882-\$ or EP-442752-\$).did. or (JP- 2002206103-\$ or JP- 2002105552-\$ or JP- 2008179897-\$ or JP- 2007119925-\$).did. or (WO- 2005049882-\$ or WO- 2005010220-\$ or EP- 442752-\$ or WO- 2007007498-\$ or JP- 2003017491-\$ or WO- 03009367-\$ or WO- 0199176-\$ or US- 20030143138-\$ or WO- 0229125-\$).did.	US-PGPUB; USPAT; EPO; JPO; DERWENT	ADJ	ON	2009/02/26 17:48
S52	57	S50 not S51	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/02/26 17:48

**EAST Search History (I nterference)**

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**11/ 10/ 2009 2:45:49 PM**

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